

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------------|------------------|---------|------------------|
| L1 | 569 | (134/201).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/18 17:00 |
| L2 | 5 | 1 and (door actuator piston rod) with seal\$3 with pressur\$5 | US-PGPUB; USPAT | OR | ON | 2006/04/18 17:01 |
| L3 | 5 | 1 and ((door actuator piston rod) with seal\$3 with pressur\$5) | US-PGPUB; USPAT | OR | ON | 2006/04/18 17:01 |
| S1 | 1556 | (workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressur\$4) with (closure gate door)) | US-PGPUB; USPAT | OR | ON | 2006/04/18 17:00 |
| S2 | 190 | (workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressur\$4) with (closure gate door) with seal\$3) | US-PGPUB; USPAT | OR | ON | 2004/10/13 13:15 |
| S3 | 12 | (workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) | US-PGPUB; USPAT | OR | ON | 2004/10/13 13:41 |
| S4 | 5 | ("0643949" "3681008" "4228135" "4256701" "4426358").PN. | USPAT | OR | ON | 2004/10/13 13:20 |
| S5 | 0 | "6048494".URPN. | USPAT | OR | ON | 2004/10/13 13:22 |
| S6 | 1 | (workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) | EPO; JPO; DERWENT | OR | ON | 2004/10/13 13:27 |
| S7 | 351 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) | US-PGPUB; USPAT | OR | ON | 2004/10/14 17:55 |
| S8 | 36 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) same actuat\$4 | US-PGPUB; USPAT | OR | ON | 2004/10/13 14:01 |
| S9 | 3 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) same actuat\$4 | EPO; JPO; DERWENT | OR | ON | 2004/10/13 14:02 |
| S10 | 10 | "3623627".URPN. | USPAT | OR | ON | 2004/10/13 14:43 |
| S11 | 0 | "6048494".URPN. | USPAT | OR | ON | 2004/10/13 15:52 |
| S12 | 5 | ("0643949" "3681008" "4228135" "4256701" "4426358").PN. | USPAT | OR | ON | 2004/10/13 15:53 |
| S13 | 434 | (118/733).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/10 11:21 |
| S14 | 4 | sheydayi-alexei.in. | US-PGPUB; USPAT | OR | ON | 2005/03/13 15:04 |
| S15 | 1 | sheydayi-alexei.in. | EPO; JPO; DERWENT | OR | ON | 2004/10/14 13:06 |
| S16 | 13 | (US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did. | USPAT; DERWENT | OR | OFF | 2004/10/14 17:11 |
| S17 | 1 | (US-3681008-\$).did. | USOCR | OR | OFF | 2004/10/14 17:11 |
| S18 | 8 | ((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and lock\$3 | US-PGPUB; USPAT | OR | ON | 2004/10/14 17:52 |
| S19 | 1 | ((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and (valve with (check\$3 (build with up)) with pressure) | US-PGPUB; USPAT | OR | ON | 2004/10/14 17:55 |

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|-----|-----|--|------------------------------|----|-----|------------------|
| S20 | 42 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 (build with up)) with pressure) | US-PGPUB; USPAT | OR | ON | 2004/10/14 17:55 |
| S21 | 1 | ((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and (valve with (check\$3 collect\$3 (build with up)) with pressure) | US-PGPUB; USPAT | OR | ON | 2004/10/14 17:56 |
| S22 | 44 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 collect\$3 (build with up)) with pressure) | US-PGPUB; USPAT | OR | ON | 2004/10/14 18:10 |
| S23 | 710 | ((vessel chamber) with (pressuriz\$4)) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure) | EPO; JPO; DERWENT | OR | ON | 2004/10/14 18:11 |
| S24 | 0 | ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure) | EPO; JPO; DERWENT | OR | ON | 2004/10/14 18:11 |
| S25 | 33 | ((vessel chamber) with (pressuriz\$4) with seal\$3) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure) | EPO; JPO; DERWENT | OR | ON | 2004/10/14 18:16 |
| S26 | 1 | ((vessel chamber) with (pressuriz\$4) with seal\$3) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure) | EPO; JPO; DERWENT | OR | ON | 2004/10/14 18:17 |
| S27 | 13 | ((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure) | EPO; JPO; DERWENT | OR | ON | 2004/10/14 18:22 |
| S28 | 738 | ((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure) | US-PGPUB; USPAT | OR | ON | 2004/10/14 18:39 |
| S29 | 121 | ((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure with supply\$3) | US-PGPUB; USPAT | OR | ON | 2004/10/14 18:40 |
| S33 | 216 | (220/240).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/03/10 09:57 |
| S34 | 14 | S33 and (pressure with caus\$3 with clos\$3) | US-PGPUB; USPAT | OR | ON | 2005/03/10 09:57 |
| S35 | 0 | ("6048494").URPN. | USPAT | OR | ON | 2005/03/10 11:18 |
| S36 | 7 | ("0643949" "3681008" "4228135" "4256701" "4426358").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/03/10 11:18 |
| S37 | 10 | (118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum)) | US-PGPUB; USPAT | OR | ON | 2005/03/10 11:27 |
| S38 | 2 | (118/715.ccls.) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum)) | US-PGPUB; USPAT | OR | ON | 2005/03/10 11:28 |
| S39 | 630 | (wafer substrate semiconductor) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum)) | US-PGPUB; USPAT | OR | ON | 2005/03/10 11:28 |
| S40 | 66 | (wafer substrate semiconductor) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum) with pressure) | US-PGPUB; USPAT | OR | ON | 2005/03/10 11:28 |
| S41 | 4 | sheydayi-alexei.in. | US-PGPUB; USPAT | OR | ON | 2005/03/13 15:04 |
| S42 | 0 | sheydayi-alexei-\$.in. | US-PGPUB; USPAT | OR | ON | 2005/03/13 15:04 |
| S43 | 0 | 10/353,192 | US-PGPUB; USPAT | OR | ON | 2005/03/13 15:04 |
| S44 | 13 | layman-frederick-p\$.in. | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:41 |
| S45 | 0 | 60/178,304 | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:41 |

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|-----|------|---|---|----|-----|------------------|
| S46 | 0 | 60/178,304 | EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:42 |
| S47 | 2 | "60178304" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:46 |
| S48 | 0 | (261/63.5).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/06/27 09:49 |
| S49 | 395 | (251/63.5).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/06/27 09:49 |
| S50 | 0 | S49 and supercritical | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:49 |
| S51 | 0 | "251".ccls. and supercritical | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:49 |
| S52 | 24 | "251"/\$.ccls. and supercritical | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:54 |
| S53 | 7 | "453867" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:56 |
| S54 | 3 | "1499491" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:57 |
| S55 | 0 | metallgiesserei.in. | EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:58 |
| S56 | 0 | metallgiesserei.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/27 09:58 |
| S57 | 1454 | (supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5) | US-PGPUB; USPAT | OR | ON | 2005/06/27 09:59 |
| S58 | 321 | (supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5) and semiconductor | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:24 |
| S59 | 111 | (supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5 and (actuat\$4 piston)) and semiconductor | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:06 |

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|-----|------|---|------------------------------|----|-----|------------------|
| S60 | 199 | ("0050096" "0001929" "0036023" "0205510" "0020518" "0134515" "2617719" "2625886" "3623627" "3689025" "3744660" "3968885" "4426358" "4029517" "4091643" "4245154" "4341592" "4355937" "4367140" "4391511" "4406596" "4422651" "4474199" "4522788" "4549467" "4574184" "4592306" "4601181" "4626509" "4670126" "4682937" "4693777" "4749440" "4778356" "4788043" "4789077" "4823976" "4825808" "4827867" "4838476" "4865061" "4879431" "4917556" "4924892" "4951601" "4960140" "4983223" "5672204" "5817178" "5011542" "5044871" "5062770" "5071485" "5105556" "5143103" "5167716" "5169296" "5169408" "5185296" "5186594" "5186718" "5188515" "5190373" "5191993" "5193560" "5195878" "5213485" "5217043" "5221019" "5222876" "5224504" "5236669" "5237824" "5240390" "5243821" "5246500" "5251776" "5267455" "5280693" "5285352" "5288333" "5313965" "5314574" "5328722" "5337446" "5339844" "5355901" "5368171" "5370741" "5374829" "5377705" "5401322" "5404894" "5412958" "5417768" "5433334" "5447294" "5474410" "5494526" "5503176" "5505219" "5509431" "5526834" "5533538" "5571330" "5589224" "5621982" "5629918" "5644855" "5649809" "5656097" "5669251" "5679169" "5702228" "5706319" "5746008" "5769588" "5797719" "5798126" "5879459" "5881577" "5882165" "5888050" "5898727" "5900107" "5904737" "5906866" "5928389" "5932100" "5934856" "5934991" "5975492" "5979306" "5980648" "5981399" "5989342" "6048494" "6508259" "6005226" "6017820" "6021791" "6029371" "6035871" "6037277" "6053348" "6056008" "6062853" "6067728" "6077053" "6077321" "6082150" "6085935" "6089377" "6097015" "6109296" "6122566" "6128830" "6145519" "6159295" "6164297" "6186722" "6203582" "6216364" "6228563" "6235634" "6239038" "6241825" "6244121" "6251250" "6277753" "6286231" "6305677" "6333268" "6334266" "6344174" "6355072" "6388317" "6389677" "6406782" "6418956" "6436824" "6454519" "6454945" "6464790" "6465403" "6509141" "6521466" "6541278" "6546946" "6550484" "6558475" "6561213" "6561220" "6561481" "6561767" "6564826" "6635565" "6641678" "6722642").PN. | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:06 |
| S61 | 7 | ("4426358").URPN. | USPAT | OR | ON | 2005/06/27 10:08 |
| S62 | 9 | ("5433334").URPN. | USPAT | OR | ON | 2005/06/27 10:14 |
| S63 | 22 | ("0997793" "1269572" "2010200" "2196895" "2584100" "2664611" "3258151" "3866794" "4102474" "4114933" "4315577" "4342207" "4489850" "4512496" "4625890").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 10:15 |
| S64 | 1088 | ((valve door gate closure) with pressuriz\$5 with vessel) and semiconductor | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:24 |
| S65 | 214 | ((valve door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:25 |
| S66 | 23 | ((slit slot door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:29 |
| S67 | 2 | ((slit slot door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor | EPO; JPO; DERWENT | OR | ON | 2005/06/27 10:34 |
| S68 | 0 | shrinivasan-krishnan-\$.in. shimanovich-arkadiy-\$.in. starov-vladimir-\$.in. | EPO; JPO; DERWENT | OR | ON | 2005/06/27 10:34 |
| S69 | 1 | shrinivasan-krishnan-\$.in. shimanovich-arkadiy-\$.in. starov-vladimir-\$.in. | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:35 |
| S70 | 11 | shrinivasan-krishnan.in. shimanovich-arkadiy.in. starov-vladimir.in. | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:38 |
| S71 | 1 | ("5226632").PN. | US-PGPUB; USPAT | OR | OFF | 2005/06/27 10:38 |
| S72 | 31 | ("5226632").URPN. | USPAT | OR | ON | 2005/06/27 10:39 |
| S73 | 1 | ("6073655").URPN. | USPAT | OR | ON | 2005/06/27 10:44 |

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|------|-------|---|------------------------------|----|-----|------------------|
| S74 | 7 | ("4688757" "5226632" "5343946" "5363872" "5419532" "5433238" "Re29679").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 10:44 |
| S75 | 4 | ("3977423" "4909271" "4991619" "5226632").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 10:52 |
| S76 | 21 | "0155628" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 10:52 |
| S77 | 9 | "155628" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 10:53 |
| S78 | 1 | "200155628" | EPO; JPO; DERWENT | OR | ON | 2005/06/27 10:54 |
| S79 | 0 | "200155628" | US-PGPUB; USPAT | OR | ON | 2005/06/27 10:54 |
| S80 | 14 | sutton-thomas-r\$.in. | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:01 |
| S81 | 408 | (slit with valve with (lock\$3 interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:01 |
| S82 | 50694 | ("118"/\$.ccls. 156/345.\$.ccls.)(slit with valve with (lock\$3 interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:02 |
| S83 | 111 | ("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (lock\$3 interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:04 |
| S84 | 2 | ("118"/\$.ccls. 156/345.\$.ccls.) and (actuator with slit with valve with (lock\$3 interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:03 |
| S85 | 3 | ("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (lock\$3 interlock\$3) with prevent\$3) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:03 |
| S86 | 0 | ("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:04 |
| S87 | 19 | (slit with valve with (interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:04 |
| S88 | 1 | ("5579718").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 11:06 |
| S89 | 2 | ("6291814").URPN. | USPAT | OR | ON | 2005/06/27 11:09 |
| S90 | 0 | ("pressurized chamber" with slit with vlave) | USPAT | OR | ON | 2005/06/27 11:09 |
| S91 | 2 | ("pressurized chamber" with slit with valve) | USPAT | OR | ON | 2005/06/27 11:10 |
| S92 | 25 | ("pressurized chamber" with door) | USPAT | OR | ON | 2005/06/27 11:12 |
| S93 | 2 | ("pressurized chamber" with (closure door) with inside) | USPAT | OR | ON | 2005/06/27 11:12 |
| S94 | 2 | ("pressurized chamber" with (closure door) with inside) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:13 |
| S95 | 22 | ("pressurized chamber" with (seal\$3) with inside). | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:14 |
| S96 | 29 | ("pressurized chamber" with (seal\$3) with internal\$4) | US-PGPUB; USPAT | OR | ON | 2005/06/27 11:14 |
| S97 | 449 | (118/733).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/06/27 12:29 |
| S98 | 12 | S97 and ((pressurized supercritical (positive adj pressure)) with seal\$3) | US-PGPUB; USPAT | OR | ON | 2005/06/27 12:30 |
| S99 | 1 | 10/007,227 | US-PGPUB; USPAT | OR | ON | 2006/01/17 20:05 |
| S100 | 1 | ("5626324").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/17 20:05 |
| S101 | 0 | 118/718-719.ccls. and afterburner | US-PGPUB; USPAT | OR | ON | 2006/01/17 20:22 |

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|----------|------|---|----------------------|----|-----|------------------|
| S10 2 | 2 | 118/715-733.ccls. and afterburner | US-PGPUB; USPAT | OR | ON | 2006/01/17 20:22 |
| S10 3 | 1 | 156/345\$.ccls. and afterburner | US-PGPUB; USPAT | OR | ON | 2006/01/17 20:24 |
| S10 4 | 2 | ashing with afterburner | US-PGPUB; USPAT | OR | ON | 2006/01/17 20:24 |
| S10 5 | 1 | ("6506364").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/18 15:09 |
| S10 6 | 1 | ("6306564").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/18 15:12 |
| S10 7 | 1 | ("20020046707").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/18 17:11 |
| S10 8 | 5197 | (liquid with crystal with display with method).ti. | US-PGPUB; USPAT | OR | ON | 2006/01/18 17:11 |
| S10 9 | 7 | ((gate slit) adj valve) with interlock\$3 with (cylinder barrel rod bar actuat\$4). | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:00 |
| S11 0 | 52 | ((gate slit) adj valve) with interlock\$3 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:00 |
| S11 1 | 4 | ((gate slit) adj valve) with interlock\$3 with pressure | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:20 |
| S11 2 | 4 | ((gate slit) adj valve) with interlock\$3 with pressur\$7 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:02 |
| S11 3 | 3 | ((gate slit) adj valve) with interlock\$3 with safety | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:03 |
| S11 4 | 48 | ((gate slit) adj valve) with interlock\$3 | EPO; JPO; DERWENT | OR | ON | 2006/01/19 19:07 |
| S11 5 | 22 | ((gate slit) adj valve) same pressur\$7 same interlock\$3 | EPO; JPO; DERWENT | OR | ON | 2006/01/19 19:18 |
| S11 6 | 1 | ("4784037").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/19 19:24 |
| S11 7 | 6 | ("4784037").URPN. | USPAT | OR | ON | 2006/01/19 19:18 |
| S11 8 | 471 | ((gate slit) adj valve) with lock\$3 with pressure | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:20 |
| S11 9 | 6 | ((gate slit) adj valve) with lock\$3 with pressure with saf\$7 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:21 |
| S12 0 | 1 | ("5626364").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/19 19:25 |
| S12 1 | 1 | ("5626324").PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/19 19:25 |
| S12 2 | 997 | (high with pressure with (gate slit) with valve) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:26 |
| S12 3 | 630 | ((high adj pressure) with (gate slit) with valve) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:26 |
| S12 4 | 66 | ((high adj pressure) with (gate slit) with valve with cylinder) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:52 |
| S12 5 | 4 | ((high adj pressure) with (gate slit) with valve with cylinder and interlock\$4 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:27 |
| S12 6 | 117 | ((high adj pressure) with chamber) same ((gate slit) adj valve) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:34 |
| S12 7 | 17 | S126 and interlock\$4 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:28 |
| S12 8 | 0 | ((high adj pressure) with chamber) same ((gate slit) adj valve) same interlock\$4 | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:29 |

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|----------|------|--|------------------------------|----|----|------------------|
| S12 9 | 8 | S126 and (carbon with dioxide) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:37 |
| S13 0 | 3 | (gate with valve with interlock\$4) and (carbon with dioxide) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:38 |
| S13 1 | 0 | (gate with valve with interlock\$4) and (carbon with dioxide) | EPO; JPO; DERWENT | OR | ON | 2006/01/19 19:38 |
| S13 2 | 0 | (gate with valve with interlock\$4) and supercritical | EPO; JPO; DERWENT | OR | ON | 2006/01/19 19:40 |
| S13 3 | 12 | (gate with valve) and supercritical | EPO; JPO; DERWENT | OR | ON | 2006/01/19 19:42 |
| S13 4 | 81 | (gate adj valve) and supercritical | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:43 |
| S13 5 | 59 | (gate adj valve) and supercritical and semiconductor | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:43 |
| S13 6 | 5 | ((gate adj valve) same (actua\$5 cylinder piston)) and supercritical and semiconductor | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:45 |
| S13 7 | 0 | layman.in. and ((valve) same (actua\$5 cylinder piston)) and supercritical and semiconductor | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:46 |
| S13 8 | 14 | layman.in. and ((valve)) and supercritical and semiconductor | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:46 |
| S13 9 | 7 | ("2924233" "4270727" "4421298" "4515344" "4721282" "4869458").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/01/19 19:49 |
| S14 0 | 77 | ((high adj pressure) same ((gate) adj valve) same cylinder) | US-PGPUB; USPAT | OR | ON | 2006/01/19 19:53 |
| S14 1 | 1 | ("6073655").URPN. | USPAT | OR | ON | 2006/01/19 20:07 |
| S14 2 | 7 | ("4688757" "5226632" "5343946" "5363872" "5419532" "5433238" "Re29679").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/01/19 20:08 |
| S14 3 | 1469 | valve same (opening with cylinder) same (closing with cylinder) same (door closure body) | US-PGPUB; USPAT | OR | ON | 2006/01/20 13:48 |
| S14 4 | 2371 | valve same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body) | US-PGPUB; USPAT | OR | ON | 2006/01/20 13:49 |
| S14 5 | 63 | (gate with valve) same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body) | US-PGPUB; USPAT | OR | ON | 2006/01/20 14:37 |
| S14 6 | 36 | (gate adj valve) same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body) | US-PGPUB; USPAT | OR | ON | 2006/01/20 13:51 |
| S14 7 | 17 | ("5626324").URPN. | USPAT | OR | ON | 2006/01/20 14:31 |
| S14 8 | 0 | (gate with valve) same ((lift\$3 opening) adj cylinder) same ((closing lower\$3) adj cylinder) | US-PGPUB; USPAT | OR | ON | 2006/01/20 14:38 |
| S14 9 | 10 | (gate with valve) and ((lift\$3 opening) adj cylinder) and ((closing lower\$3) adj cylinder) | US-PGPUB; USPAT | OR | ON | 2006/01/20 14:38 |
| S15 0 | 35 | ((gate slit slot) with valve) and ((lift\$3 opening) adj cylinder) and ((closing lower\$3) adj cylinder) | US-PGPUB; USPAT | OR | ON | 2006/01/20 15:38 |
| S15 1 | 248 | ((gate slit slot) with valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 15:41 |
| S15 2 | 8 | ((gate slit slot) with valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3) with (saf\$4 interlock\$4 prevent\$4)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 15:40 |
| S15 3 | 53 | ((gate slit slot) adj valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:26 |
| S15 4 | 5 | ((gate slit slot) adj valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3)) | EPO; JPO; DERWENT | OR | ON | 2006/01/20 15:41 |

EAST Search History

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|----------|-------|--|----------------------|----|-----|------------------|
| S15 5 | 29 | (422/118).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/01/20 18:26 |
| S15 6 | 10 | S155 and valve | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:39 |
| S15 7 | 10 | S155 and valv\$3 | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:28 |
| S15 8 | 19 | S155 not S157 | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:28 |
| S15 9 | 83 | 422/117.ccls. and valve | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:39 |
| S16 0 | 3 | 422/117.ccls. and (gate adj valve) | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:49 |
| S16 1 | 0 | "252".ccls. and (plurality with (cylinder actuator)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:50 |
| S16 2 | 1447 | "251"/\$.ccls. and (plurality with (cylinder actuator)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 19:25 |
| S16 3 | 76175 | (cylinder actuator) with (prevent\$3 prohibit\$3 with open\$3 with pressure) | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:51 |
| S16 4 | 170 | ((cylinder actuator) with (prevent\$3 prohibit\$3) with open\$3 with pressure) and "251"/\$.ccls. | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:52 |
| S16 5 | 18 | S164 and (gate with valve) | US-PGPUB; USPAT | OR | ON | 2006/01/20 18:52 |
| S16 6 | 167 | "251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with clos\$3) | US-PGPUB; USPAT | OR | ON | 2006/01/20 19:26 |
| S16 7 | 4 | "251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with clos\$3 with (saf\$3 interlock\$3)) | US-PGPUB; USPAT | OR | ON | 2006/01/20 19:28 |
| S16 8 | 13 | "251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3) | US-PGPUB; USPAT | OR | ON | 2006/01/20 19:36 |
| S16 9 | 111 | ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3) | EPO; JPO; DERWENT | OR | ON | 2006/01/20 19:36 |
| S17 0 | 47 | valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3) | EPO; JPO; DERWENT | OR | ON | 2006/01/20 20:12 |
| S17 1 | 237 | valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3) | US-PGPUB; USPAT | OR | ON | 2006/01/20 20:12 |
| S17 2 | 105 | valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with (saf\$3 prevent\$3 prohibit\$3) with pressur\$7) | US-PGPUB; USPAT | OR | ON | 2006/01/20 20:13 |
| S17 3 | 88 | valve same ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with (saf\$3 prevent\$3 prohibit\$3) with pressur\$7) | US-PGPUB; USPAT | OR | ON | 2006/01/20 20:13 |
| S17 4 | 257 | ((door closure) with ("opening cylinder" "opening actuator")) | US-PGPUB; USPAT | OR | ON | 2006/01/23 09:15 |
| S17 5 | 7 | ((door closure) with ("opening cylinder" "opening actuator")) same ((door closure) with ("closing cylinder" "closing actuator")) | US-PGPUB; USPAT | OR | ON | 2006/01/23 09:18 |
| S17 6 | 14 | (door closure) same ("opening cylinder" "opening actuator") same ("closing cylinder" "closing actuator") | US-PGPUB; USPAT | OR | ON | 2006/01/23 09:48 |
| S17 7 | 7 | S176 not S175 | US-PGPUB; USPAT | OR | ON | 2006/01/23 09:19 |
| S17 8 | 5 | (door closure) same ("opening cylinder" "opening actuator") same ("closing cylinder" "closing actuator") | EPO; JPO; DERWENT | OR | ON | 2006/01/23 11:01 |
| S17 9 | 1 | (118/715-733.ccls. 118/50.ccls. 156/345.\$ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3) | EPO; JPO; DERWENT | OR | ON | 2006/01/23 11:02 |
| S18 0 | 71 | (118/715-733.ccls. 118/50.ccls. 156/345.\$ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3) | US-PGPUB; USPAT | OR | ON | 2006/01/23 11:47 |
| S18 1 | 74 | ("134"/\$.ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3) | US-PGPUB; USPAT | OR | ON | 2006/01/23 11:47 |

EAST Search History

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| S18 2 | 16 | ("134"/\$.ccls.) and ((door closure) with ((cylinder actuator) with open\$3 with clos\$3) same pressur\$6) | US-PGPUB; USPAT | OR | ON | 2006/01/23 11:48 |
| S18 3 | 222 | pressur\$4.clm. and chamber.clm. and door.clm. and cylinder.clm. and open\$3.clm. and clos\$3.clm. | US-PGPUB; USPAT | OR | ON | 2006/04/12 16:16 |
| S18 4 | 105 | pressur\$4.clm. and chamber.clm. and door.clm. and cylinder.clm. and open\$3.clm. and clos\$3.clm. and seal\$3.clm. | US-PGPUB; USPAT | OR | ON | 2006/04/12 18:24 |
| S18 5 | 167 | "134"/\$.ccls. and ((door closure) with cylinder) | US-PGPUB; USPAT | OR | ON | 2006/04/12 18:24 |
| S18 6 | 32 | "134"/\$.ccls. and ((door closure) with cylinder with pressur\$5) | US-PGPUB; USPAT | OR | ON | 2006/04/12 18:24 |